

AN: PAT 1993-060668
TI: Automobile windscreen washer with variable angle jet uses electric motor controlled through vehicle speed sensor to rotate nozzle, altering angle in 10 deg steps
PN: FR2677938-A1
PD: 24.12.1992
AB: The windscreen washer includes a nozzle (30), connected to a pump and liquid reservoir, via a support block (24), which is rotatable on a transverse axis (XX) within a moulded housing (10) fixed on a vehicle's coachwork (12) near the screen (22). A gearer (stepping) motor (34), mounted in the housing, drives a horizontal worm-shaft (40) engaging with a lower, toothed, face of the block. The motor controller (48), using a speed sensor (50) input, increases the jet angle (A) by 10 degs. When the speed rises over 100 km/h, 20 degs. over 130 km/h and 30 degs. over 160 km/h.; Automatically compensates for increased jet deflection as speed rises.
PA: (VALO) VALEO SYSTEMES ESSUYAGE SA;
IN: EUSTACHE J; MAUBRAY D;
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